

CLAIMS

Amend the claims as follows.

1. (Currently Amended) An FM transmitter comprising:
a processor configured to receive text data providing ancillary information descriptive of an audio signal, to convert the text data into digitally encoded speech, and to encode the audio signal and the digitally encoded speech according to an FM standard into an FM digital signal;
a converter configured to convert the FM digital signal into an analog FM signal; and
a transmitter configured to transmit the analog FM signal.
- 2.-3. (Canceled)
4. (Currently Amended) The FM transmitter ~~according to~~ of claim 1, further comprising: a band-pass filter configured to filter the analog FM signal to exclude signal components outside of a range of frequencies according to an RDS standard.
5. (Canceled)
6. (Currently Amended) The FM transmitter ~~according to~~ of claim 1, wherein: the processor includes a signal combiner is configured to time-division multiplex the digitally encoded speech and the audio signal to generate the FM digital signal.
7. (Currently Amended) The FM transmitter ~~according to~~ of claim 6, wherein the processor is includes ~~a programmed processor comprising~~ code to control the processor to convert the text data into the digitally encoded speech.
8. (Currently Amended) The FM transmitter ~~according to~~ of claim 6, wherein:
the processor is configured to receive a digital audio signal as the audio signal; and
the processor includes a signal combiner configured ~~comprises multiplexing circuitry~~ to time-division multiplex the digital audio signal and the digitally encoded speech to generate the FM digital signal.

9. (Currently Amended) The FM transmitter ~~according to~~ of claim 1, wherein:
an auxiliary audio device is configured to generate the audio signal; and
the processor is a control processor of the auxiliary audio device.

10. (Currently Amended) The FM transmitter ~~according to~~ of claim 9, wherein the
auxiliary audio device includes a device selected from a group consisting of a CD player, a
CD-MP3 player, a universal satellite receiver, and a digital audio broadcast receiver.

11. (Currently Amended) The FM transmitter ~~according to~~ of claim 10, further
comprising a wireless remote control receiver coupled to the auxiliary audio device, wherein the
wireless remote control receiver is configured to receive commands to control the auxiliary audio
device and to receive commands to select text data to be transmitted in the FM signal.

12. (Currently Amended) The FM transmitter ~~according to~~ of claim 1, further
comprising:
a housing physically distinct from the auxiliary audio device and to which the processor,
the converter, and the transmitter are mounted, wherein the housing ~~comprising~~ includes:
an audio input configured to receive the audio signal from an auxiliary audio
device; and

a data input configured to receive the text data from the auxiliary audio device;
~~wherein the housing is physically distinct from the auxiliary audio device.~~

13. (Currently Amended) A transceiver, comprising:

a radio data system (RDS) modulator configured to generate a modulated text data signal modulated as an RDS signal in response to a broadcast audio transmission including text data and an audio signal, wherein the text data being is configured to provide ancillary information descriptive of the audio signal;

a frequency modulation (FM) encoder configured to generate an FM encoded audio signal in response to the audio signal;

a signal combiner configured to combine the modulated text data signal and the FM encoded audio signal into a combined signal; and

an FM transmitter configured to transmit the combined signal.

14. (Currently Amended) The transceiver of claim 13 further comprising: a satellite audio receiver ~~comprising a processor; and, wherein~~ at least one of the RDS modulator, the FM encoder, ~~and or~~ the signal combiner are implemented in ~~the processor of the satellite audio receiver.~~

15. (Previously Presented) The transceiver of claim 13, further comprising:

a processor configured to convert the text data into digitally encoded speech and to encode the digitally encoded speech and the audio signal into a combined FM digital audio signal; and

a converter configured to convert the combined FM digital audio signal into a combined FM analog audio signal.

16. (Previously Presented) The transceiver of claim 15, wherein the processor includes a signal combiner configured to time-division multiplex the digitally encoded speech and the audio signal to generate the combined FM digital audio signal.

17. (Currently Amended) The transceiver of claim 13, further comprising: a housing configured to mount in which the receiver and at least one of the RDS modulator, the FM encoder, the signal combiner, ~~and or~~ the FM transmitter.

18. (Currently Amended) The transceiver of claim 17, wherein ~~each of~~ at least one of the RDS modulator, the FM encoder, the signal combiner, ~~and~~ or the FM transmitter are mounted in the housing.

19. (Currently Amended) A handheld audio player, comprising:
a storage device;
a processor configured to receive an audio signal and text data providing ancillary information descriptive of the audio signal from the storage device, to generate a modulated text data signal ~~from including speech encoding~~ of the text data, ~~to encode the audio signal into an FM-encoded audio signal~~, to combine the modulated text data and the ~~FM-encoded~~ audio signal into a combined audio signal, and to convert the combined audio signal into an FM signal; and
a frequency modulation (FM) transmitter configured to transmit the FM signal.

20.-21. (Canceled)

22. (Currently Amended) The handheld audio player of claim 19, wherein: the handheld audio player includes at least one of a compact disc (CD) player, a flash player, an MP3 player, ~~and~~ or a hard disk drive (HDD) jukebox.

23. (Currently Amended) The handheld audio player of claim 19,
wherein the processor is configured to convert the text data into digitally encoded speech and to combine the digitally encoded speech and the audio signal into a combined digital audio signal;

wherein a converter is configured to convert the combined digital audio signal into a combined analog audio signal; and

wherein the FM transmitter is configured to transmit the combined analog audio signal.

24. (Previously Presented) The handheld audio player of claim 23, wherein the processor includes a signal combiner configured to time-division multiplex the digitally encoded speech and the audio signal to generate to combined digital audio signal.

25. (New). The transceiver of claim 14 wherein the FM transmitter is tunable for retransmission of the broadcast transmission received by the satellite audio receiver to an available channel of an RDS-capable preinstalled FM stereo car receiver.